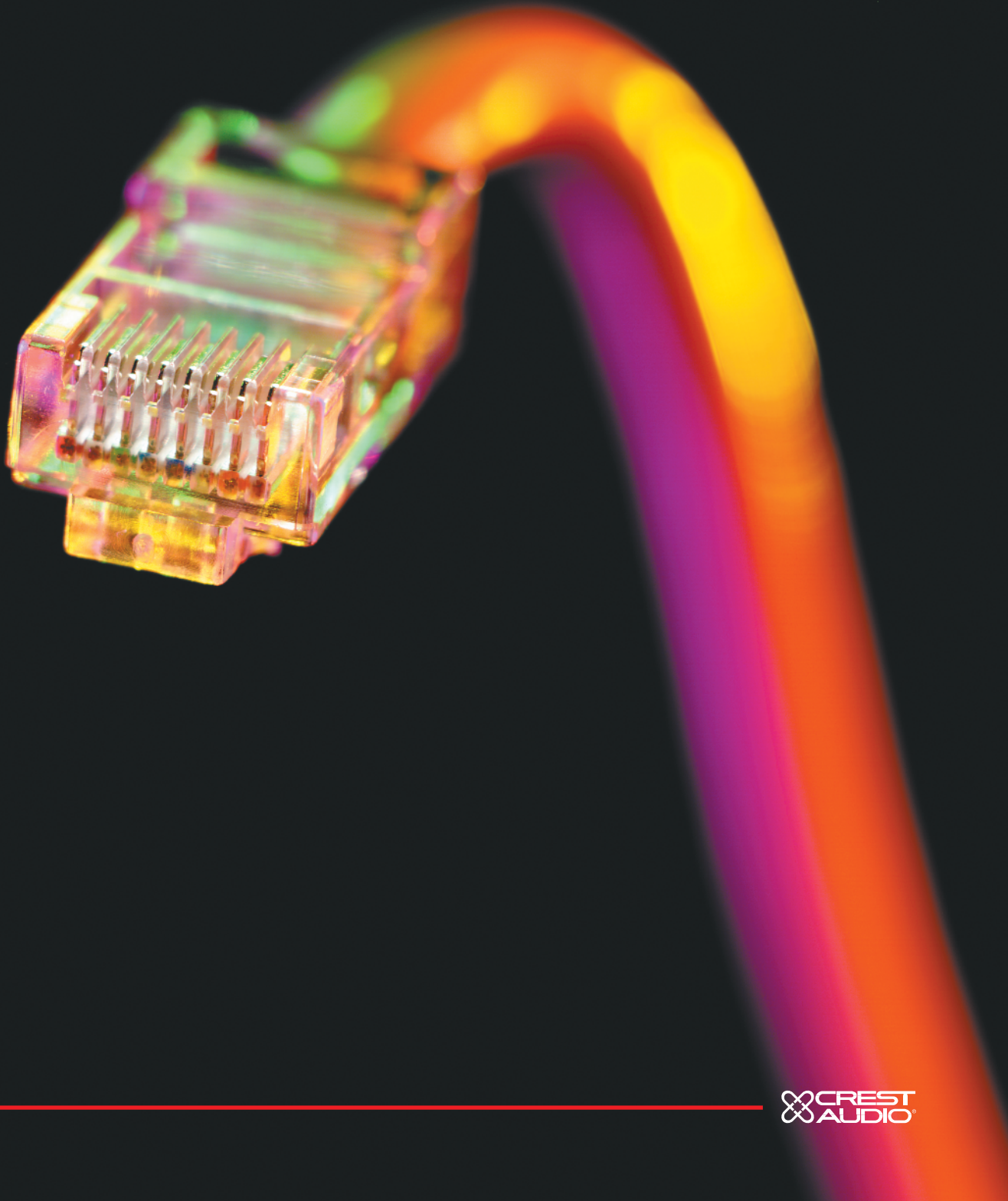


**CREST  
AUDIO®**

**CKi Series  
Power Amplifiers**

**CKi  
SERIES**



**CREST  
AUDIO®**

# Introduction

Crest Audio, the first company to offer computer controlled amplification now raises the bar. With the introduction of the CKi series of amplifiers, Crest Audio has added many standard features that other manufactures either charge additional for or don't offer at all. Whether your requirements are simple or extremely complex, CKi series amplification systems are perfect for permanent installations of any size. As with all Crest Audio amplifiers, reliability and sonic performance are the most important factors in the amplifiers design.

With three different types of amplifiers, two add-on modules, and plug in options, the CKi series of amplifiers allows you the flexibility to install exactly what you need to do the job. CKiS amplifiers are the low impedance series, CKiV units are specially designed for distributed systems, and CKiX is the 100 Volt, transformer isolated version of the amplifier. Module options include NxEtherNet and NxCobraNet cards which can be ordered installed in the amplifiers or easily added later. The NxEtherNet card is an ethernet based network module that enables the amplifier to communicate with NexSys and MediaMatrix software for control and reporting of amplifier functions by remote computer control. The NxCobraNet card incorporates all of the functionality of the NxEtherNet module plus the ability to decode 2 channels of CobraNet digital audio.

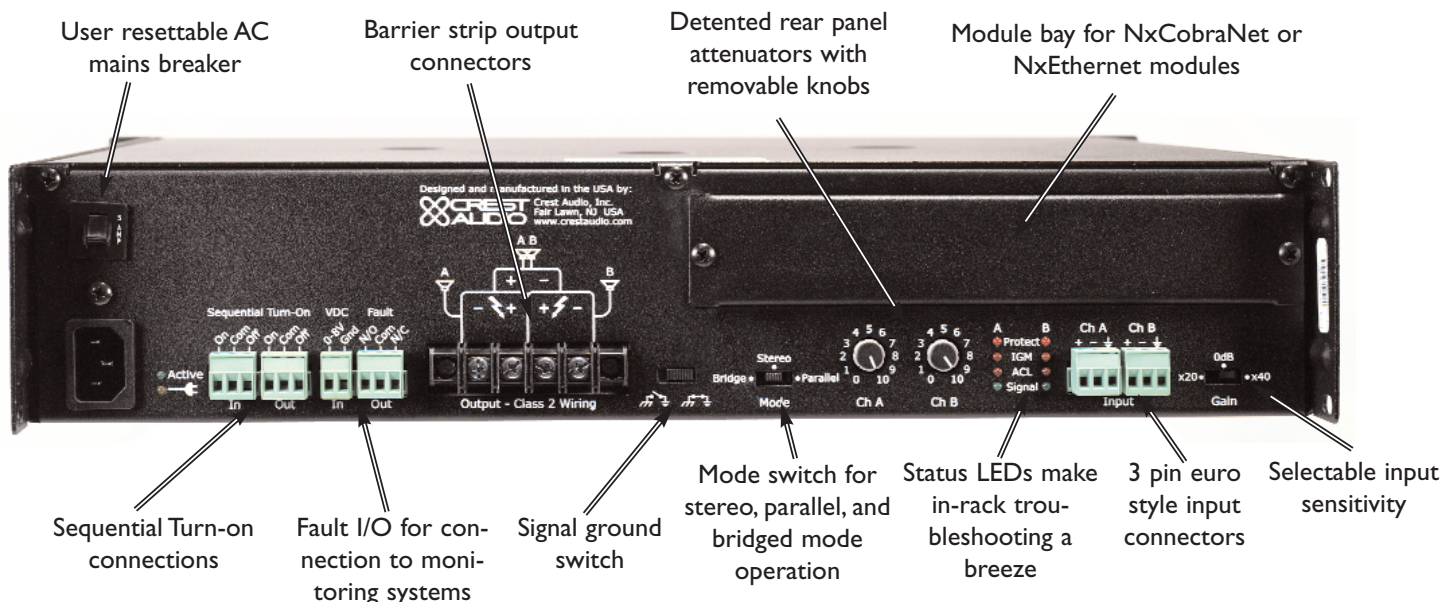
CKi amplifiers standard features include sequential turn-on / turn-off (STO), input gain switch

(x20, 0dB / .775V, and x40), mode switch (stereo, parallel, bridged), ground lift switch, and removable detented potentiometers. In addition, status LEDs are provided on the front and rear of the unit for signal, ACL, IGM, and protect conditions. Power monitoring is by two LEDs, one which displays that power is present to the amplifier and one that signifies that the amplifier is operating (Active LED). Input is through 3-pin euro style connectors and output is provided on 4 position barrier strips. Fault I/O closure outputs are provided on a three pin euro-style connector to alert external supervisory systems, such as a control room display, if an amp problem exists.

Amplifier options available include NxDSP processor plug-in board and the transformer input isolation board. The NxDSP option allows control of speaker related functions such as delay, EQ, and limiting. The transformer isolation board helps to eliminate problems with improper audio grounding and impedance mis-matches between equipment.

Crest TourClass protection includes active clip limiting (ACL) which prevents speaker damage by providing gentle gain reduction at the onset of clipping. Instantaneous gain modulation (IGM) monitors speaker loads to detect conditions that overstress amplifiers. Autoramp gradually increases gain to the preset amplifier setting when the amplifier is turned on.

Backed by Crest Audio's 5 year warranty\* and exceptional service departments, CKi amplifiers are a perfect choice for all of your fixed installation requirements.



\*USA, Canada, and many other countries.

# CKiS Series

Designed to drive low impedance loads



Model	Stereo			Bridged		Class	RMS	Maximum
	8 $\Omega$	4 $\Omega$	2 $\Omega$	8 $\Omega$	4 $\Omega$			
<b>CKi100s</b>	60W	90W	N/A	180W	N/A	AB	22V	31V
<b>CKi200s</b>	120W	175W	N/A	350W	N/A	AB	32V	45V
<b>CKi400s</b>	255W	320W	N/A	510W	N/A	AB	56V	64V
<b>CKi800s</b>	440W	670W	N/A	880W	N/A	AB	64V	90V
<b>CKi800-2s</b>	420W	670W	870W	880W	1740W	H	64V	90V
<b>CKi1200s</b>	630W	940W	1130W	1880W	2260W	H	78V	110V
<b>CKi1600s</b>	815W	1130W	1440W	2260W	2880W	H	90V	127V

power ratings are Watts per channel, both channels driven, 1kHz, 0.02% THD+N

Model	1/8 power	1/3 power	Rack U	Weight	Idle (120V)	1/8 Power	1/3 Power	Maximum*
<b>CKi100s</b>	612	780	2	26.63 / 12.09	.5A	1.65A	2.3A	3.5A
<b>CKi200s</b>	1100	1380	2	29.44 / 13.37	.6A	3.0A	4.2A	6.5A
<b>CKi400s</b>	2120	2820	2	30.44 / 13.82	.7A	5.8A	8.6A	12A
<b>CKi800s</b>	3584	4700	3	50.20 / 22.80	.7A	10.0A	14.8A	15A
<b>CKi800-2s</b>	1210	3600	3	70.65 / 32.08	.7A	4.2A	12.1A	20A
<b>CKi1200s</b>	3164	5040	4	70.65 / 32.08	1.3A	9.6A	17.3A	26A
<b>CKi1600s</b>	3154	6525	4	70.65 / 32.08	1.3A	10.0A	22.6A	30A

lbs / kg

\* circuit breaker rating, 120V / 4  $\Omega$

# CKiV Series

Designed specifically for 70 Volt distributed applications



Model	70.7 Volt	140 Volt*	Class	RMS	Maximum
<b>CKi100v</b>	50W	100W	AB	92V	130V
<b>CKi200v</b>	100W	200W	AB	92V	130V
<b>CKi400v</b>	200W	400W	AB	92V	130V
<b>CKi800v</b>	400W	800W	AB	92V	130V
<b>CKi1600v</b>	800W	1600W	H	92V	130V
<b>CKi2400v</b>	1200W	2400W	H	92V	130V

70.7 Volt power rating is Watts per channel, both channels driven, 20Hz -20kHz, 0.02% THD+N  
 \*bridged mono operation

Model	1/8 power	1/3 power	Rack U	Weight	Idle (120V)	1/8 Power	1/3 Power	Maximum*
<b>CKi100v</b>	269	304	2	25.26 / 11.47	.5A	.76A	1.02A	2.5A
<b>CKi200v</b>	816	932	2	27.20 / 12.35	.5A	2.2A	2.83A	4.2A
<b>CKi400v</b>	1304	1634	2	30.66 / 13.92	.6A	3.6A	5.1A	7.0A
<b>CKi800v</b>	2540	3263	3	50.20 / 22.80	.8A	7.0A	10.1A	15A
<b>CKi1600v</b>	2600	5000	4	70.65 / 32.08	1.3A	8.0A	17.0A	30A
<b>CKi2400v</b>	3100	6500	4	70.65 / 32.08	1.3A	10.0A	23.0A	30A

lbs / kg

\* circuit breaker rating, 120V

# CKiX Series

Engineered for 100 Volt transformer isolated systems



Model	Stereo			Bridged 200 Volt	Class	RMS	Maximum
	50 Volt*	70.7 Volt*	100 Volt				
<b>CKi150x</b>	75W	75W	75W	150W	AB	105V	150V
<b>CKi300x</b>	150W	150W	150W	300W	AB	105V	150V
<b>CKi500x</b>	250W	250W	250W	500W	AB	105V	150V
<b>CKi800x</b>	400W	400W	400W	800W	AB	105V	150V

50, 70.7, and 100 Volt power rating is Watts per channel, both channels driven, 40Hz -20kHz, 0.1% THD+N

\*50 and 70.7 Volt units are options that must be specified at time of order

Model	1/8 power	1/3 power	Rack U	Weight	Idle (240V)	1/8 Power	1/3 Power	Maximum*
<b>CKi150x</b>	363	427	3	32.00 / 14.55	.25A	.57A	.77A	1.88A
<b>CKi300x</b>	555	1683	3	35.00 / 15.91	.25A	1.6A	2.1A	3.2A
<b>CKi500x</b>	810	1024	3	35.00 / 15.91	.3A	2.2A	3.2A	4.4A
<b>CKi800x</b>	1195	1536	3	57.00 / 25.91	.4A	3.5A	5.2A	7.5A

lbs / kg

\*circuit breaker rating, 240 Volt

# NxCobraNet Module

Optional Module for NexSys Control and CobraNet Digital Audio



The NxCobraNet® module supports all NexSys control and monitoring functions as well as delivering two channels of CobraNet digital audio to the amplifier on one ethernet cable. Supported computer controlled NexSys functions include gain, sequential power, and real time load monitoring. Amplifier monitoring includes input and output level (VU), DC protect, thermal protect, IGM, clip status, power state, AC mains, heatsink temperature, gain selection, ground lift status, and audio return.

The LED display allows easy in rack readout and monitoring of temperature, gain, AC voltage, IP address, amplifier ID, as well as CobraNet bundle and channel status. Individual indicators display fault and mute status by channel as well as ethernet link and data indicators.

The NxCobraNet module requires no other additions to make it network ready. The module has an RJ-45 ethernet connection that is made through a Category 5 compliant Neutrik EtherCon connector to ensure a secure connection.

Both the NxCobraNet and the NxEthernet modules can be ordered with CKi amplifiers or easily installed in the field with two screws and a ribbon cable connection.

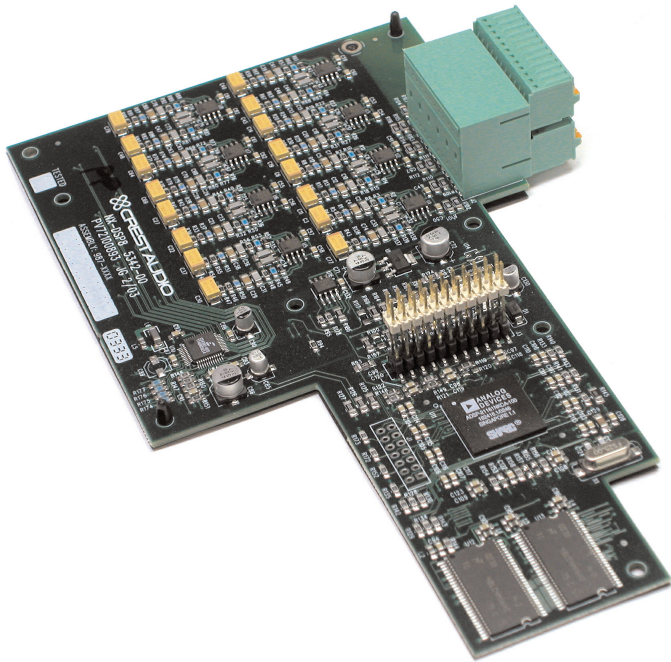
# NxEtherNet Module

Option Module for NexSys Control of CKi Amplifiers



The Crest Audio NxEthernet module is designed for clients who need the control of NexSys but do not need the digital audio delivery that the NxCobraNet module provides.

## Optional DSP for NExSys Control and CobraNet Digital Audio



The Crest Audio NxDSP plug in board for Nx CobraNet and Nx Ethernet performs various functions depending on which module it is used with.

NxEthernet module: provides speaker processing including limiting, equalization, speaker alignment, delay and gain.

NxCobraNet module: in addition to speaker processing the DSP installed in the Nx CobraNet module provides 8 channels of CobraNet audio decoded to analog outputs on the back of the module

## Input Transformers

### Optional Plug-in Input Transformers

Input isolation transformers are available for all CKi amplifiers. The plug-in module can be specified with Sescom or Jensen isolation transformers. The modules can be installed in the amplifier if ordered with the amplifiers or easily added in the field.

FA-CKiXFMRJ-ZZ Jensen transformers

FA-CKiXFMRs-ZZ Sescom transformers





Crest Audio reserves the right to make improvements in manufacturing or design which may affect specification. Crest Audio specification literature is available in electronic form to qualified users. Contact Crest Audio Inc. for more information.

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